



THE PORT AUTHORITY
OF NEW YORK



ORIGINAL SIGNED & SEALED BY
N.Y. P.E. (OR R.A.)

**Joseph R. Loring
& Associates, Inc.**
consulting engineers

One Pennsylvania Plaza
New York, New York 10001-2245
Tel. (212) 363-7400, Fax: (212) 363-7362

THE OFFICE OF
**DAVID
ELLIOT
LEBOVITZ**
P.C.
ARCHITECTS & PLANNERS
10 WEST 40TH STREET, 10TH FLOOR
NEW YORK, NEW YORK 10018
TEL. (212) 363-7400 FAX (212) 363-7362

LESLIE E. ROBERTSON
ASSOCIATES, R.L.L.P.
CONSULTING STRUCTURAL ENGINEERS
20 EAST 40TH STREET
NEW YORK, NY 10018
TEL. (212) 363-7400 FAX (212) 363-7362

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT
COPY OF ONE OF THE CONTRACT DOCUMENTS
CONSTITUTING A PART OF CONTRACT NO. **WTC-945-071**
IN THE FORM IN WHICH SAID DOCUMENTS EXISTED AT
THE TIME THE SAID CONTRACT WAS EXECUTED BY
THE PARTIES.
DATE **11/10/98** *Sullivan A. Tolson*
DATE **4/10/98** *P.L. Loring*
ENGINEER OF DESIGN

12/12/97 INDICATE CABINET
LOCATION
11/17/97 ISSUED FOR BID

No.	Date	Revision	Approved
Engineering Department			
Design Divisions			

The
World
Trade
Center

Title
**STANDBY POWER
5 WORLD TRADE CENTER**

ELECTRICAL

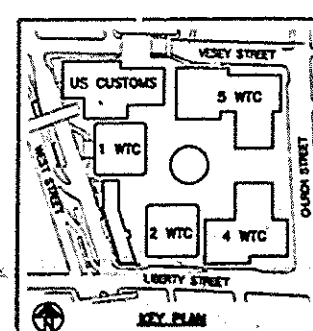
**2 WTC RISER RACEWAY
INSTALLATION DETAIL**

This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent.

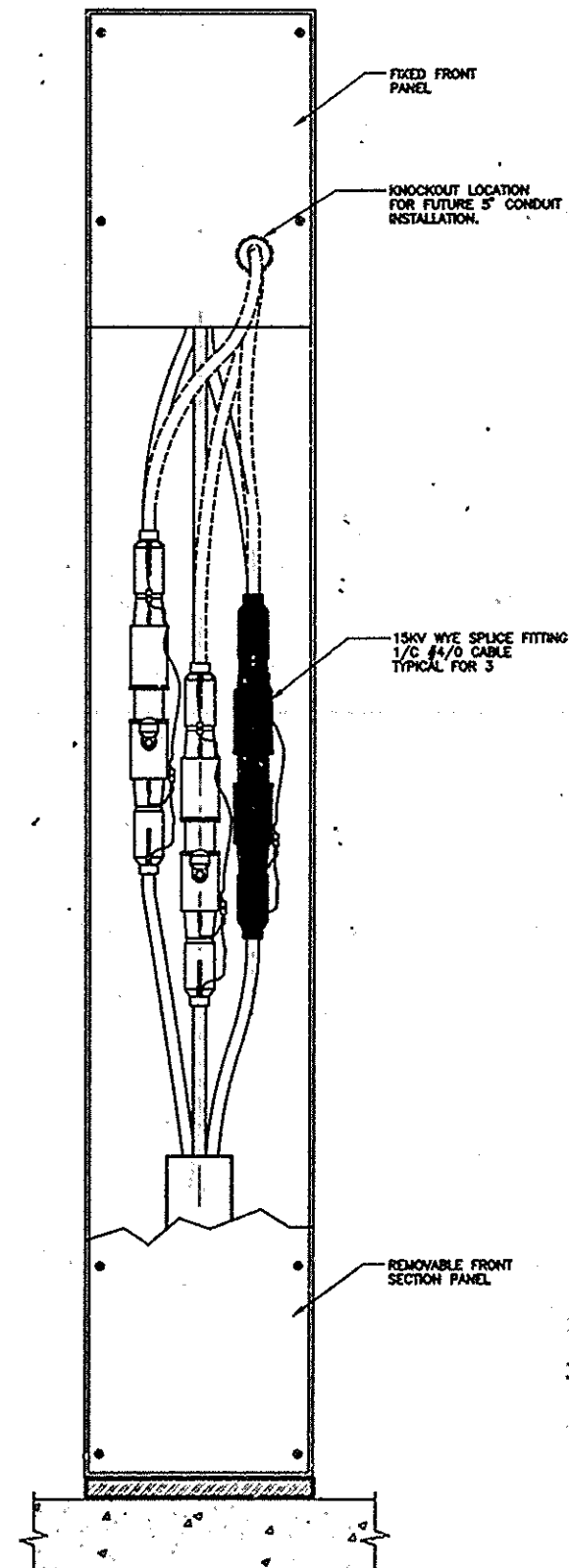
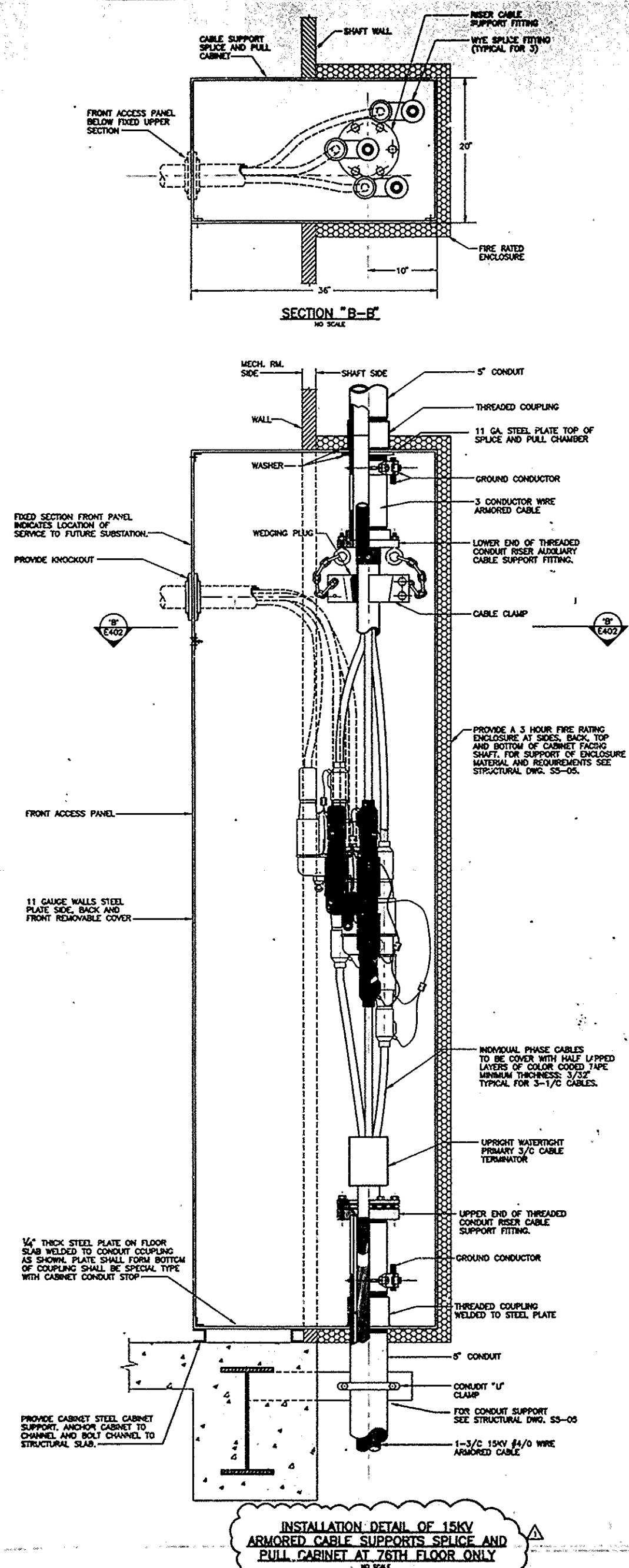
F.F.P.	M.A.R.	Check by
Designed by	Drawn by	

Date	Scale
11/17/97	NONE

Contract Number	Drawing Number
WTC-945.071	E5-04



- NOTES:
1. WYE SPLICE FITTINGS SHALL BE ELSTMOLD 650Y FOR USE ON 1/C #4/0 CABLE 15KV THREE PHASE 15KV 95KV BUS SYSTEM.
 2. THE SPLICE SHALL BE OF SAME RATINGS AND CHARACTERISTICS AS PER NOTES 2 AND 3 ON DWG. E5-03.
 3. WYE SPLICE CABLES INSTALLATION SHALL BE SAME AS PER NOTES 4, 5, 6 AND 7 ON DWG. E5-03, AS APPLIED.
 4. SPLICE AND PULL CABINET SHALL BE ATTACHED AND SECURED TO THE STRUCTURAL FLOOR. SEE STRUCTURAL DRAWINGS FOR ATTACHMENT DETAILS.
 5. 15KV 3/C WIRE ARMORED RISER CABLE AND 1/C NON-ARMORED PARALLEL-LAY CABLE ARE AUTHORITY FURNISHED EQUIPMENT.
 6. FOR RISER CONDUIT STRUCTURAL SUPPORT APPLICATION DETAILS SEE DWG. S5-05.
 7. FOR 15KV CONDUIT ROUTING AND SPLICE AND CABLE SUPPORT CABINET LOCATIONS SEE DISTRIBUTION SYSTEM RISER DIAGRAM DWG. E1-02.
 8. SEE ARCHITECTURAL DRAWINGS FOR APPLICATION OF FIRE RATINGS TO THE BACK, SIDE, TOP, AND BOTTOM OF EXTENDED SPLICE CABINET INTO PIPE SHAFT.



INSTALLATION DETAIL OF 15KV
ARMORED CABLE SUPPORTS SPLICE AND
PULL CABINET AT 76TH FLOOR ONLY
NO SCALE

FRONT ELEVATION OF CABINET
WITH 15KV-WYE SPLICE
(TYPICAL)
NO SCALE